

FIG. 1

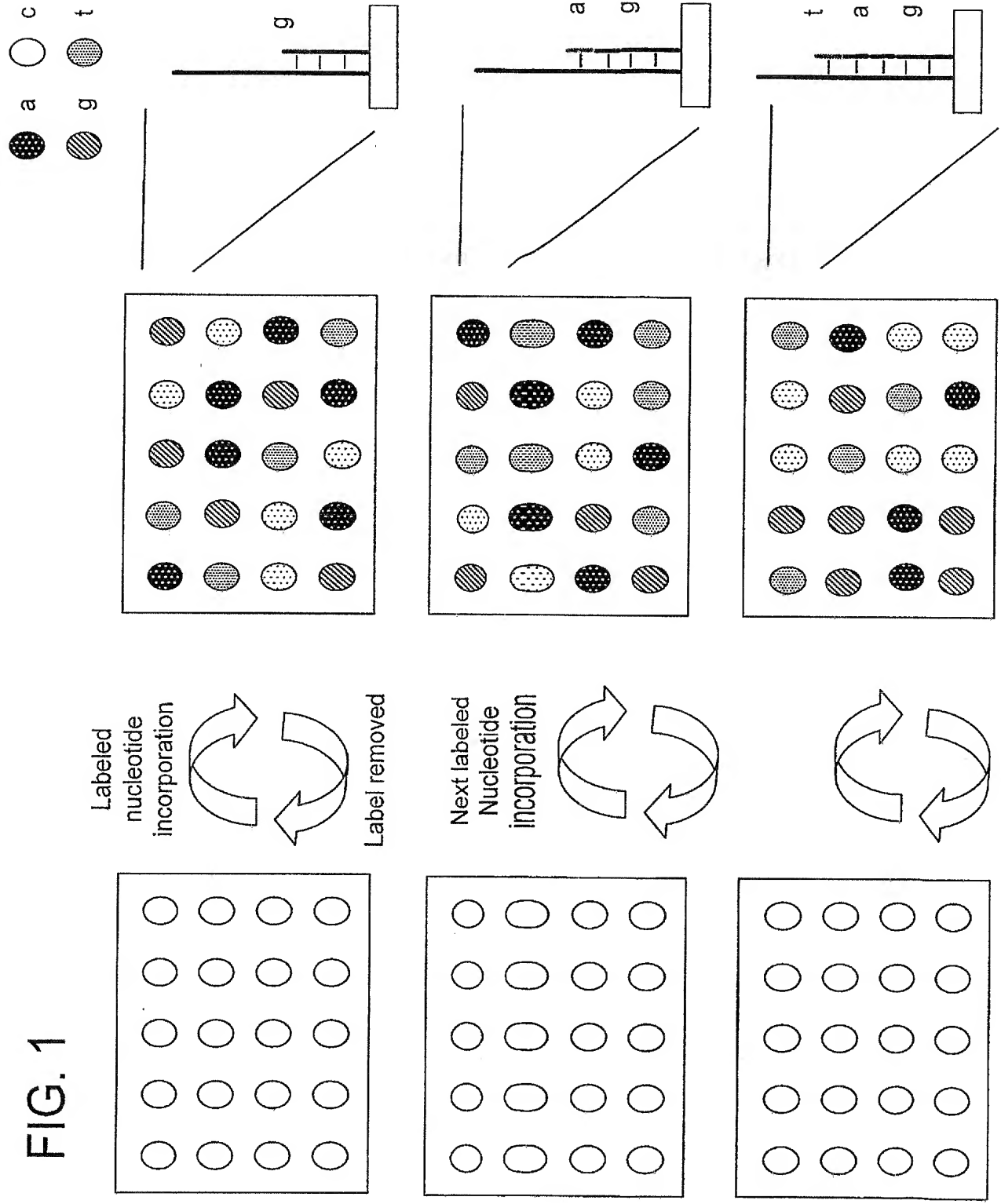
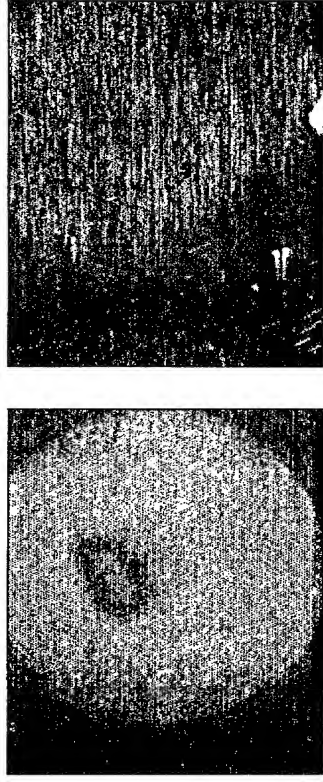
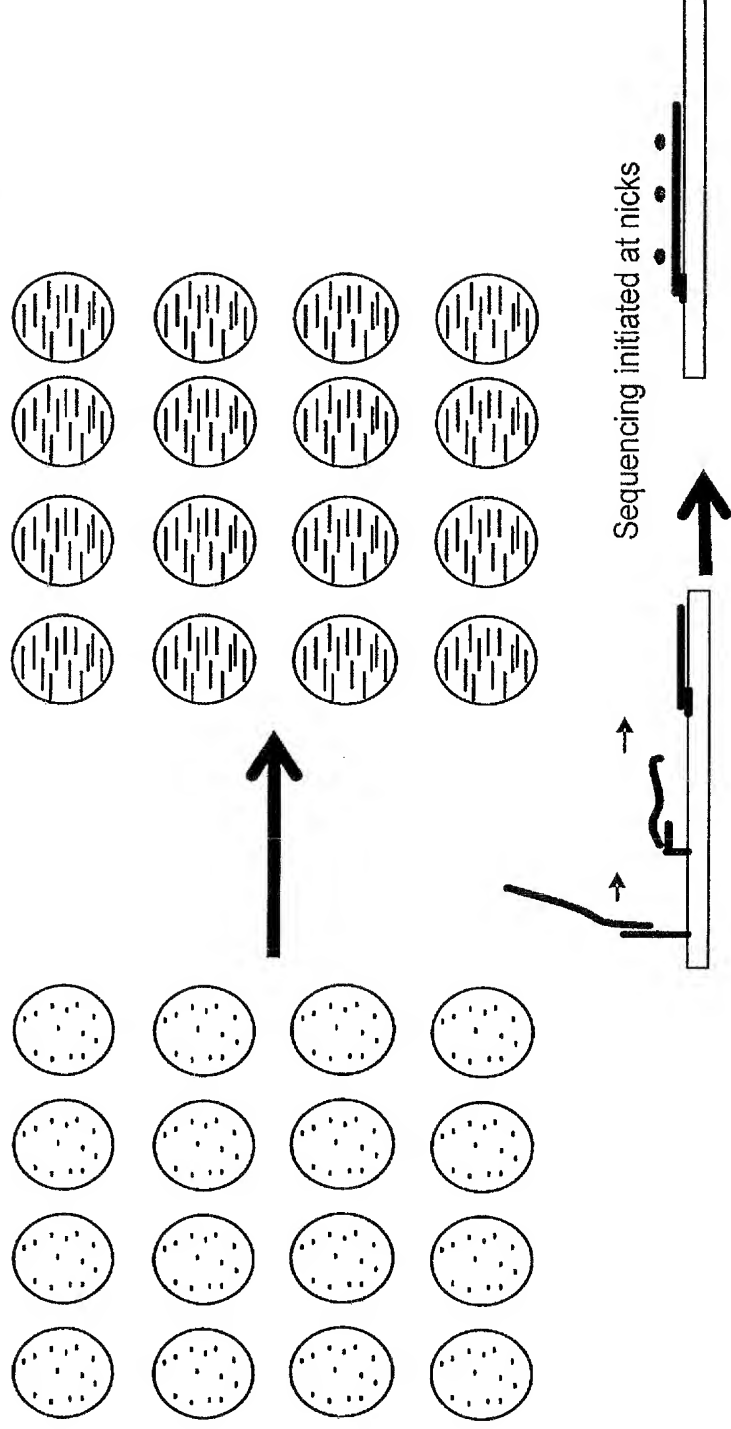


FIG. 2



40x and 100x magnification showing combed DNA



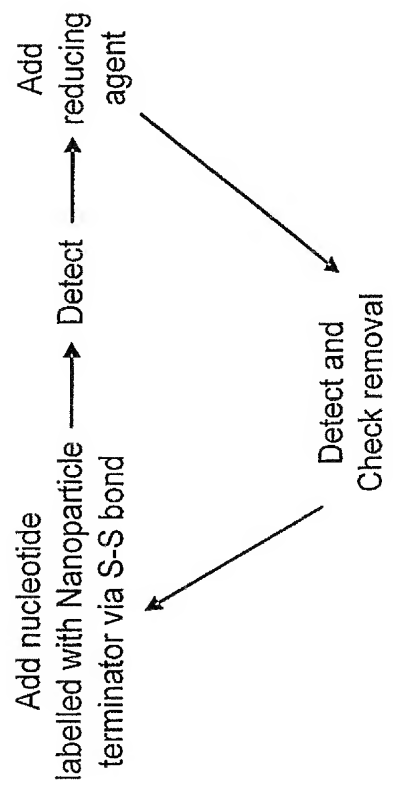
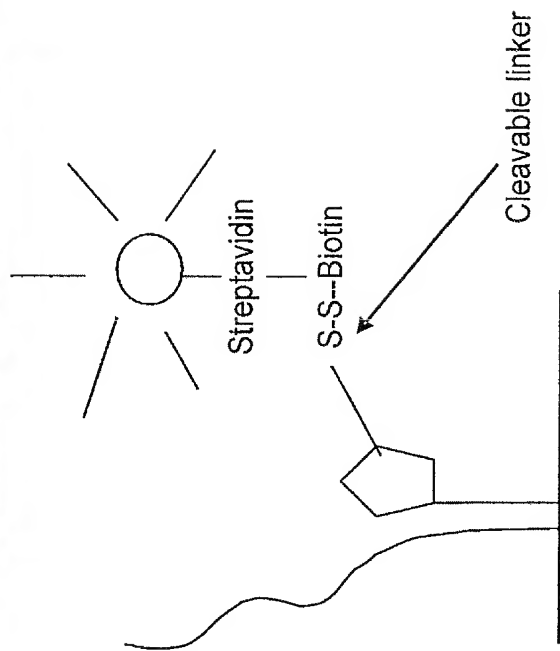
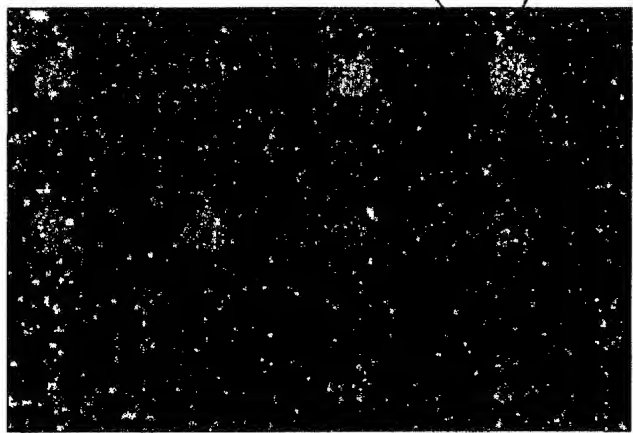
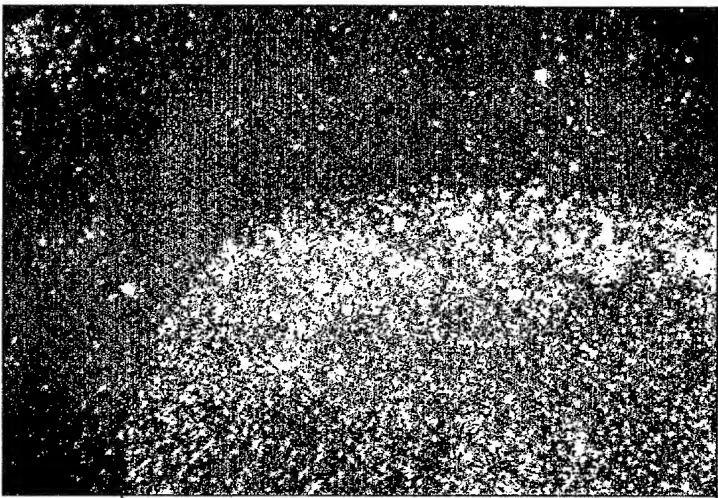


FIG. 3

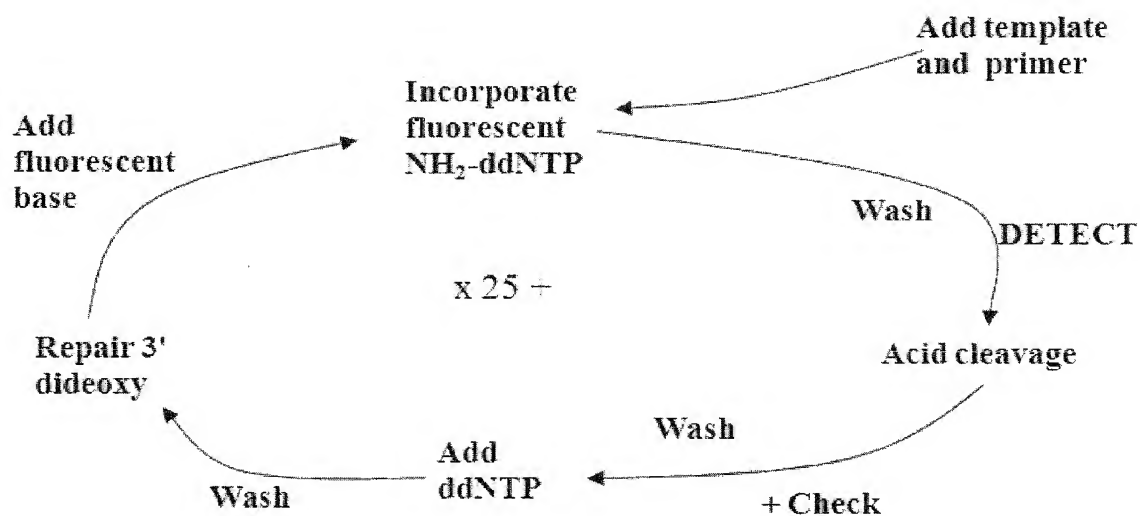
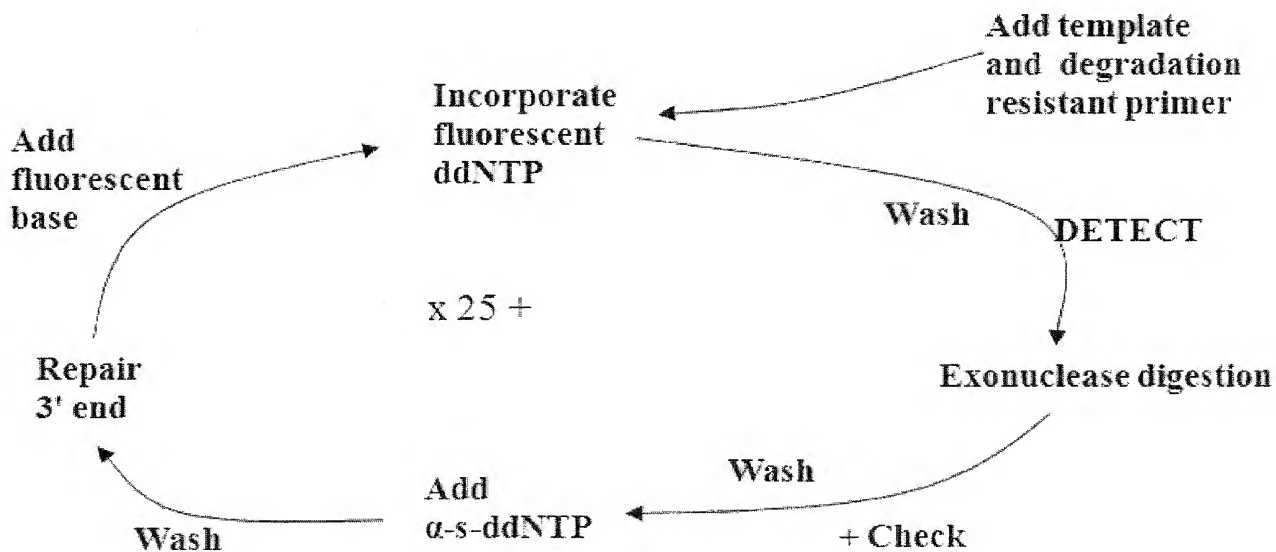
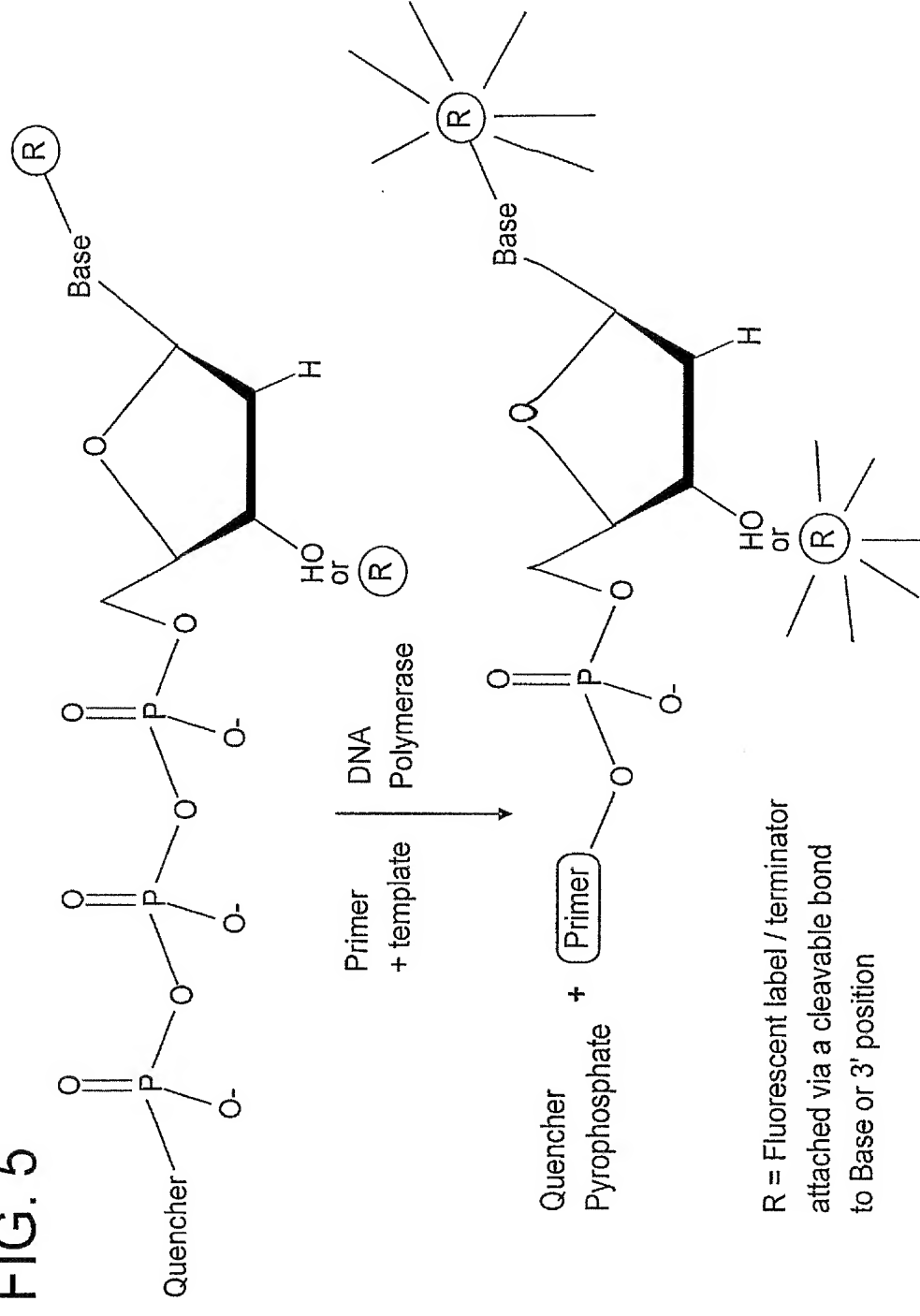
**FIG. 4A****FIG. 4B**

FIG. 5



Scheme 1, Four groups of chemically synthesised randomised oligos for ligation

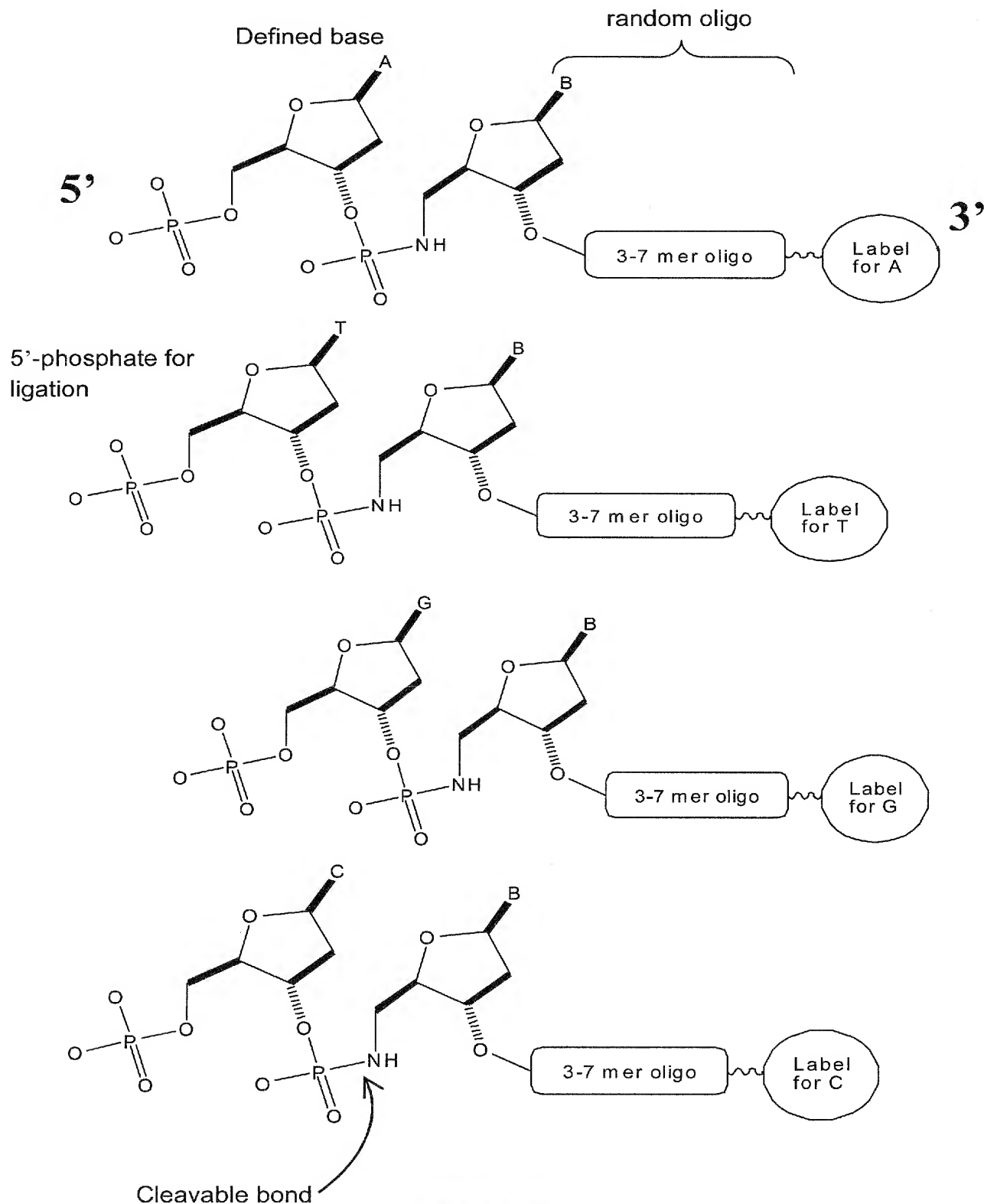


FIG. 6

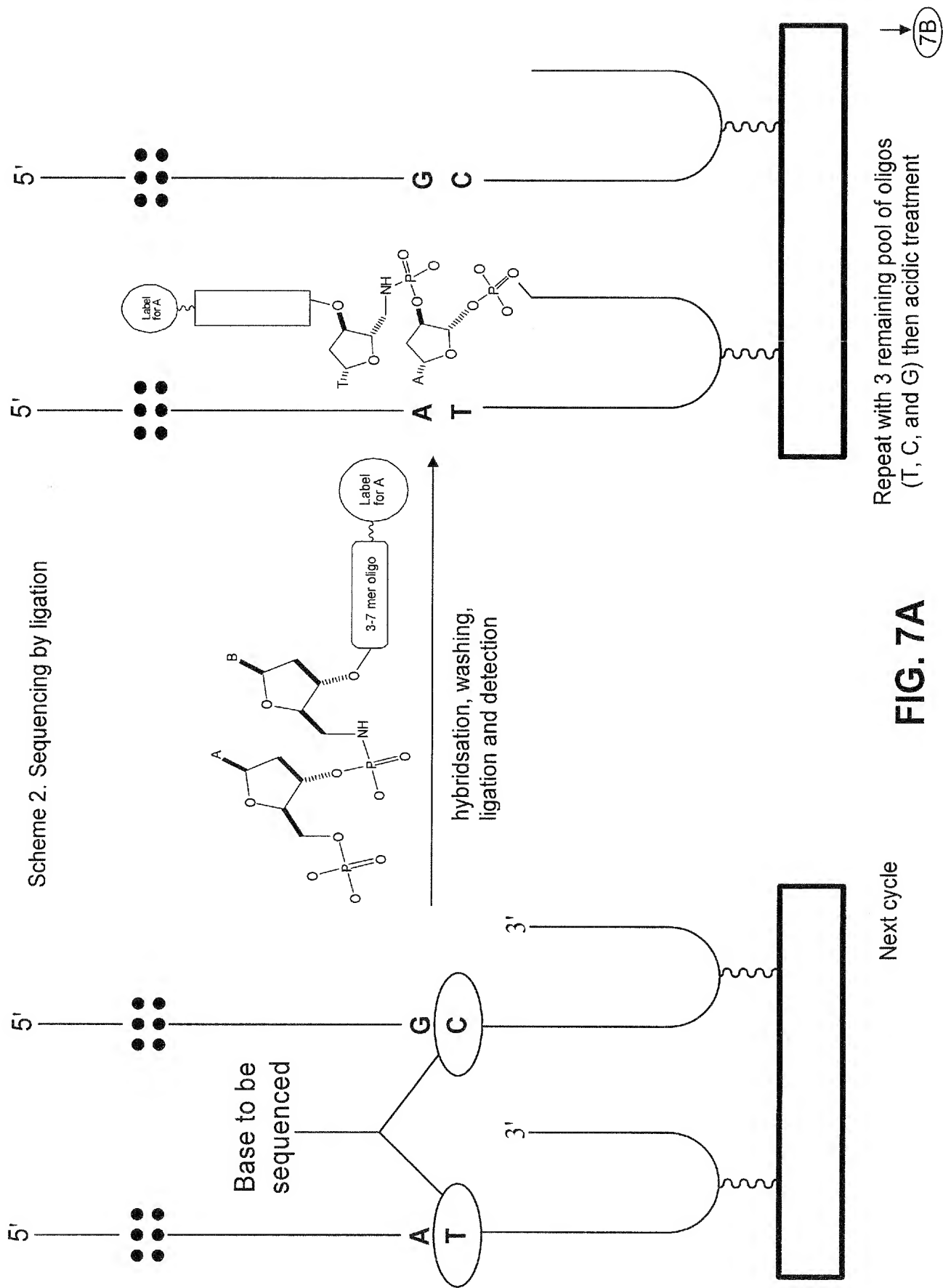


FIG. 7A

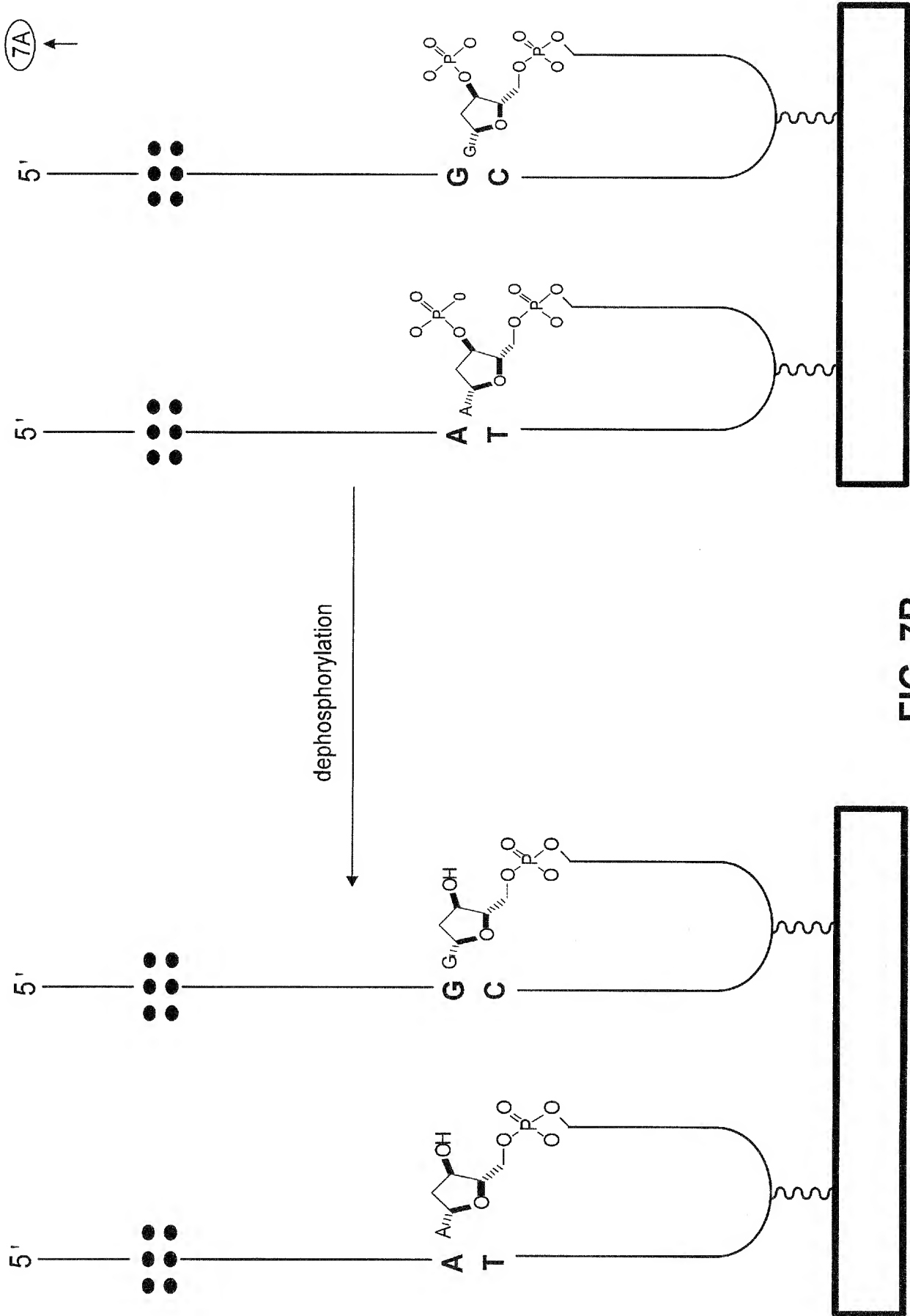
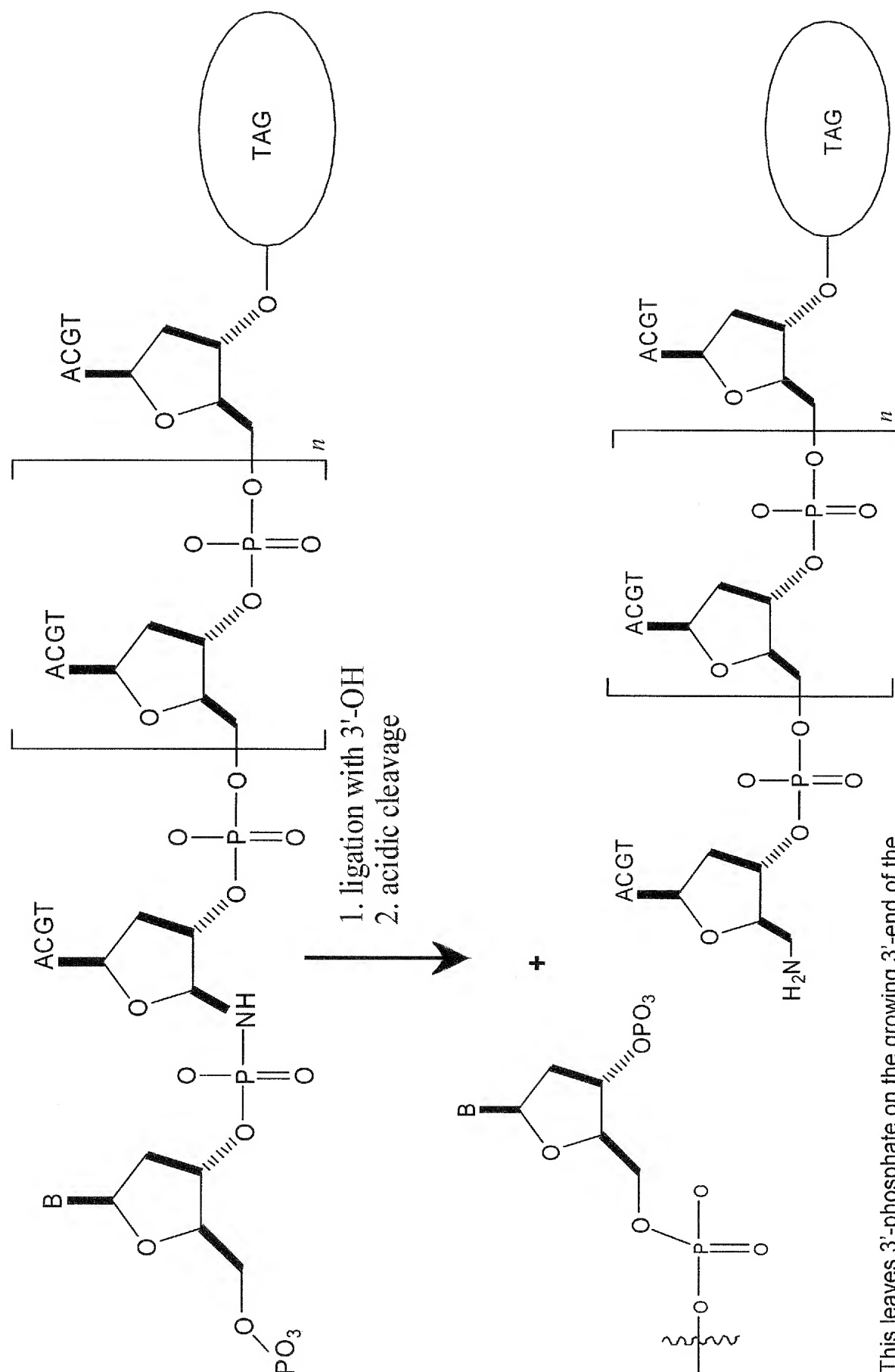


FIG. 7B

**FIG. 8A**

This leaves 3'-phosphate on the growing 3'-end of the primer, which needs to be removed.

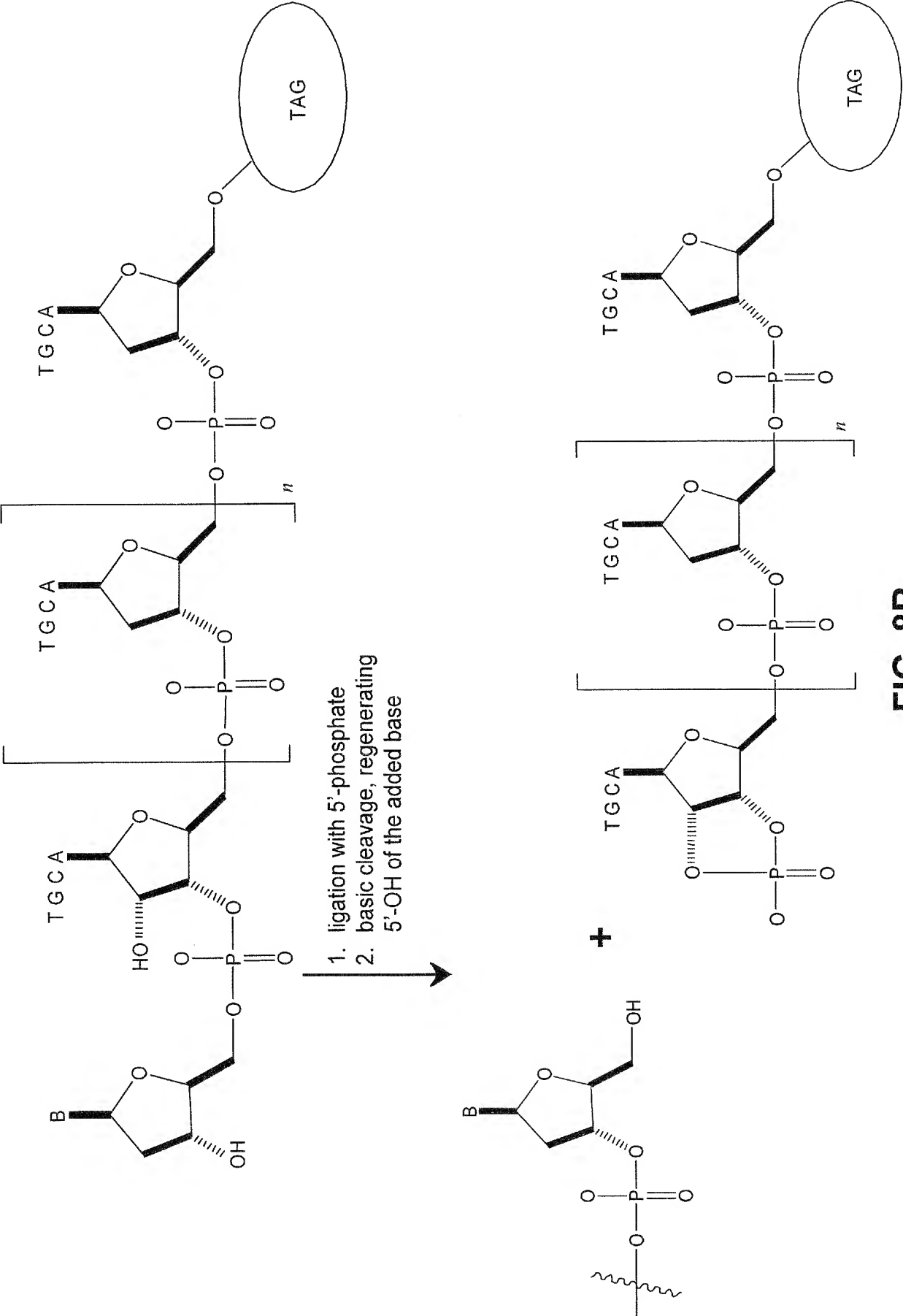


FIG. 8B

FIG. 9

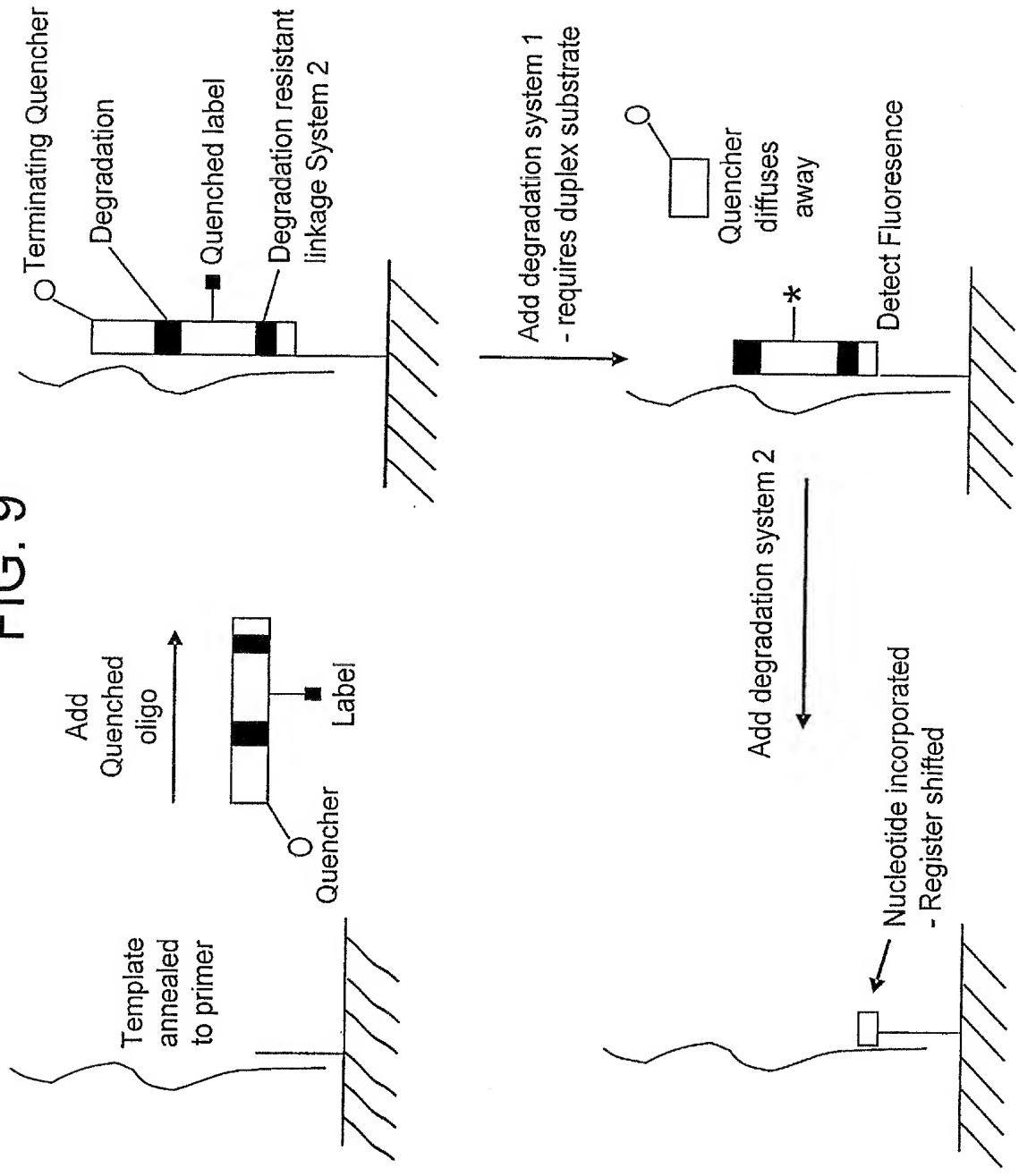


FIG. 10

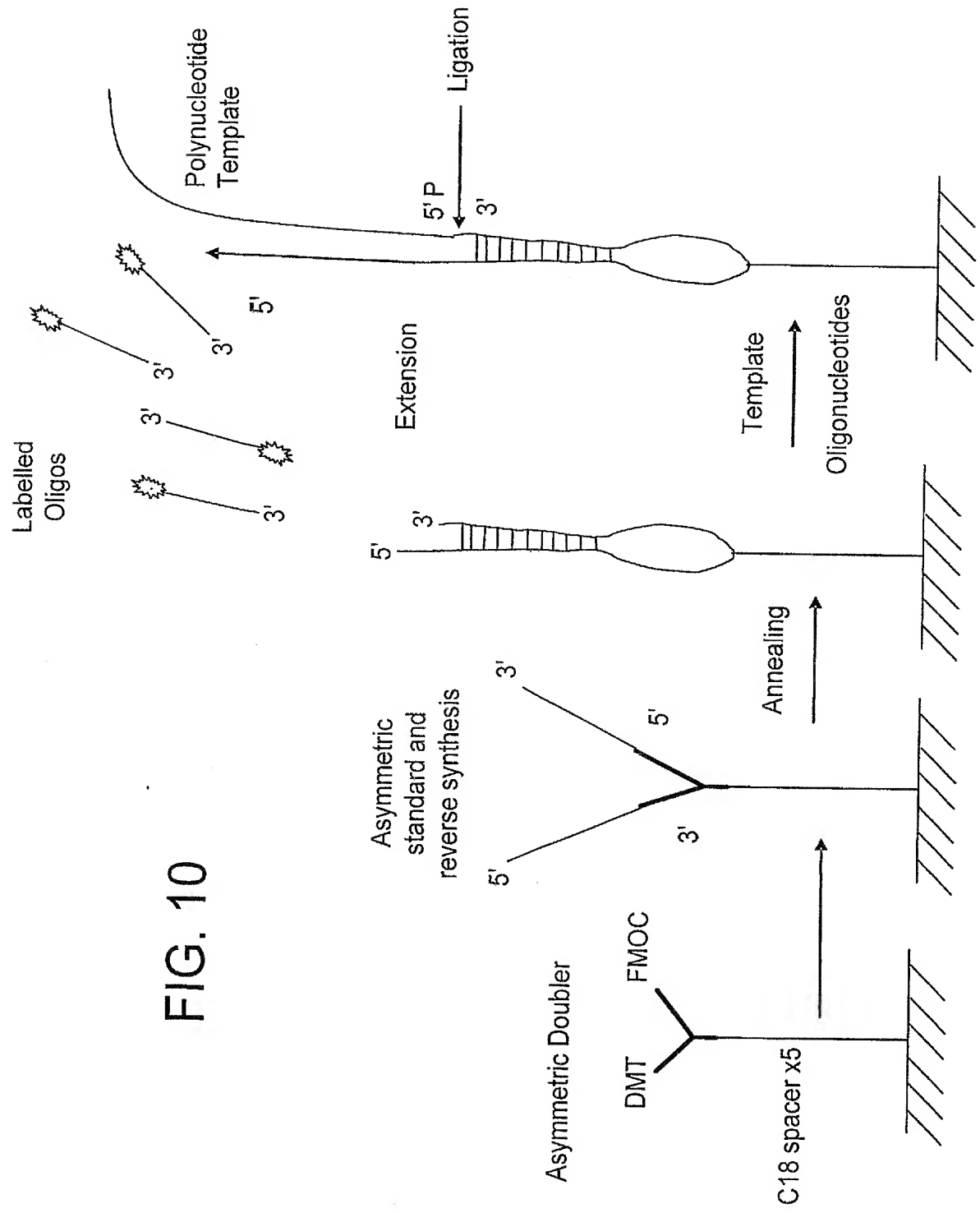


FIG. 11

